Work slip

Government of Karnataka

Form No PWG-45

Estimate Cost 100.00 Lakh

Modified Estimate for the work: Improvements to roads and Drains in KG Halli Gurunath Lay Out and Surrounding area in Ward No 12 Shettyhalli Sub Division. Dasarahalli Division BBMP

Sl.No	Description of Work	Unit	As per Sanction Estimate			As per Tender			Total Executed Qty	Qty Executed up to 125%			Qty Executed above 125%			Total Amount	Amount		Remarks
			Qty	Rate	Amount	Qty	Rate	Amount		Qty	Rate	Amount	Qty	Rate	Amount		Excess	Savings	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	Removing & Refixing stone slabs of drains and pointing in C.M (1:3) complete as per the specification & as per direction of Engineer-in-charge of the work	Sqm	3066.00	111.30	341245.80	3066.00	111.30	341245.80	2299.71	2299.71	111.30	255958.00	0.00	0.00	0.00	255958.00		85288.00	
2	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per the specification & as per direction of Engineer-in-charge of the work	Cum	1593.45	233.20	371592.54	1593.45	233.20	371592.54	1753.99	1753.99	233.20	409031.00	0.00	0.00	0.00	409031.00	37438.46		
3	Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per the specification & as per direction of Engineer-in-charge of the work	Sqm	4129.50	6.36	26263.62	4129.50	6.36	26263.62	4218.11	4218.11	6.36	26828.00	0.00	0.00	0.00	26828.00	564.38		
4	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. complete as per the specification & as per direction of Engineer-in-charge of the work	Cum	1062.40	1994.92	2119403.01	1062.92	1400.00	1488088.00	278.30	278.30	1400.00	389620.00	0.00	0.00	0.00	389620.00		1098468.00	
5	Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per the specification & as per direction of Engineer-in-charge of the work	Cum	929.14	2001.28	1859469.30	929.14	1600.00	1486624.00	468.84	468.84	1600.00	750144.00	0.00	0.00	0.00	750144.00		736480.00	
6	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of0.60 kg / sqm using mechanical meanscomplete as per the specification & as per direction of Engineer-in-charge of the work	Sqm	4129.50	29.68	122563.56	4129.50	29.68	122563.56	4077.74	4077.74	29.68	121028.00	0.00	0.00	0.00	121028.00		1535.56	

7	viding and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per the specification & as per direction of Engineer-in-charge of the work	Sqm	4129.50	12.72	52527.24	4129.50	12.72	52527.24	919.48	919.48	12.72	11696.00	0.00	0.00	0.00	11696.00		40831.24	
8	Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading; premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and lalignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 505 of MORTH V revision using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II Cum (50 mm to 75 mm) with 4.5 % VG-30 Bitumen .complete as per the specification & as per direction of Engineer-in-charge of the work	Cum	218.30	6407.70	1398800.91	218.30	8500.00	1855550.00	45.97	45.97	8500.00	390745.00	0.00	0.00	0.00	390745.00		1464805.00	
9	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015.using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) complete as per the specification & as per direction of Engineer-in-charge of the work	Cum	130.98	7537.66	987282.71	130.98	14500.00	1899210.00	153.91	153.91	14500.00	2231695.00	0.00	0.00	0.00	2231695.00	332485.00		
10	Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/Concrete Surface: Providing and laying of hot applied thermoplasticcompound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per the specification & as per direction of Engineer-in-charge of the work	Sqm	274.50	454.74	124826.13	274.50	450.00	123525.00	302.74	302.74	450.00	136233.00	0.00	0.00	0.00	136233.00	12708.00		

11	...nt Concrete Pavements KSRRB M600-1.Providing and Constructing dry lean cement concrete CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016,aggregate cement ratio not to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1 ,optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a hatching plant, transported to site,laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. Clause 601of MORTH V Revision and IS 456 Table-5 -do- with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver. complete as per the specification & as per direction of Engineer-in-charge of the work	Cum	152.25	3859.70	587639.33	152.25	3900.00	593775.00	318.74	190.31	3900.00	742219.00	128.43	4255.64	546560.00	1288779.00	695004.00		
12	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to18:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades,textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. -do- with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. (complete as per the specification & as per direction of Engineer-in-charge of the work	Cum	152.02	5353.95	813907.48	152.02	5800.00	881716.00	491.04	190.31	5800.00	1103798.00	300.73	6110.74	1837680.00	2941478.00	2059762.00		

ERIL 1	ing and fixing precast reinforced cement te covering slabs of 10cm thick made out M25 ... OPC cement @340kgs per cum , 20mm a... own size graded granite metal corse aggregtes @ 0.70cm and fine aggregates @ 0.74 cum with super plasticizers, machine mixed , incldng providing and removing centering, shuttering strutting propping etc., for edges of slab with TMT steel (Fe500) cost & reinforcement charges incldng finishing as required with cost of reinforcement etc., complete as directed by engineer incharge of the work							170.10	170.10	1694.94	288310.00	0.00	0.00	0.00	288310.00	288310.00		
	Total Construction cost				8805521.62			9242680.76				6857305.00			2384240.00	**9241545.00**	3426271.84	3427407.80	

contrctor quoted 4.95 Above the S R Rate

1	**Estimate Amount**	**8805521.62**
2	**Tendor Amount**	**9242680.76**
3	**Actual Amount As per Modified Estimate Work Slip**	**9241545.00**
	Savings	**1135.76**

Percentage of work slip = $\frac{\text{Execess}}{\text{Tender amount}}$ 37.08%

Since the expendature is lesser than the Tender Amount, the work slip may be approved

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Assistant Engineer
Ward No 12

Assistant Executive Engineer
Shettyhalli Sub Division

Executive Engineer
Dasarahalli Division

Work. slip may be. Approved.

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ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು